

Ser. No. 09/786,691

Amdt. dated August 30, 2005

Reply to Office action of May 31, 2005

Internal Docket No. PD990039

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. ~~(currently amended) Method for addressing a bitstream to be recorded or being recorded on a storage medium, wherein:~~
- ~~- an address table is used that is based on pieces of said bitstream;~~
 - ~~- said pieces each include a constant amount of bits of said bitstream;~~
 - ~~- said pieces contain data packets including an application time stamp, comprising the steps of:~~
 - ~~- using for delta time duration values an index running from '1' to 'n' or 'n-1', respectively, to each address table entry or to each address table entry except the one having index 'n' one of said delta time duration values is assigned, wherein such delta time duration value is the difference between the arrival time of the first data packet of a piece and the arrival time of the data packet following immediately the last data packet of that piece;~~
 - ~~- apart from said delta time duration values, said address table contains an initial time value that is not assigned to any of said pieces;~~
 - ~~- in order to get an address value for reaching a target address on said storage medium, said initial time value and all delta time duration values up to the nearest time duration value for the piece correspondign to said target address become accumulated, wherein the running index (i) for the delta time duration entry related to said nearest time duration value becomes multiplied by said constant bit amount in order to compute said address value, wherein said initial time value is selected such that the bits of said delta time duration values correspond in their weight to a corresponding number of the most significant bits of said application time stamps;~~

A method for addressing a bitstream being recorded on a storage medium comprising the steps of:

using an address table corresponding to pieces of said bitstream, wherein each said piece of bitstream includes a constant amount of bits and said pieces contain data packets which include an application time stamp,

assigning a delta time duration values to an entry within said address table, said entries having index values running from 1 to at least n-1, wherein said delta time duration value represents a difference in arrival times between a first data packet of a corresponding piece of said bitstream and a first data packet of a next piece of said bitstream, and said address table contains an initial time value that is not assigned to any of said pieces,

accumulating said initial time value and all of said delta time duration values up to an entry for a nearest piece of said bitstream corresponding to a desired time value in order to get an address value corresponding to said desired time value on said

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storage medium, wherein said index for said delta time duration value entry related to said nearest piece of said bitstream is multiplied by said constant bit amount in order to compute said address value.

selecting said initial time value such that bits of said delta time duration values correspond in weight to a corresponding number of a most significant bits of said application time stamps.

2. (currently amended) The Mmethod according to claim 1, wherein said storage medium is a Streamer device or a Digital Versatile Disk (DVD) recorder.
3. (currently amended) The Mmethod according to claim 1, wherein the size of a piece corresponds to the number of bits of an Error Correction Code (ECC) block or a multiple thereof.
4. (currently amended) The Mmethod according to claim 1, wherein said initial time value corresponds to ~~some, in particular '12'~~ at least one of the most significant bits of the application time stamp of the first data packet of the first piece which is described by said address table.
5. (currently amended) The Mmethod according to claim 1, wherein said address table is a mapping list.
6. (currently amended) The Mmethod according to claim 1, wherein the data packet arrival times used for calculating said delta time duration values are application time stamps of corresponding ones of said data packets rounded down by setting least significant bits of said application time stamps to zero.